

**REMARKS**

Claims 1 and 9-19 are pending in the application.

Claims 1 and 9-19 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Oharu et al (U. S. Patent No. 6,610,775).

Claims 1 and 11 are amended herein to recite that the side chains have a total sum of at least three carbon atoms. Support, for the amendment is found, for example, in the paragraph bridging pages 6-7 and the examples provided at page 7, lines 5-12.

Independent claims 1 and 11 each require (B) a surfactant which comprises a cationic surfactant and a nonionic surfactant of the formula (I):  $R^1O[CH_2CH(CH_3)O]_a-(CH_2CH_2O)_bH$ , wherein  $R^1$  is a branched alkyl including a main chain having at least 5 carbon atoms and three or more side chains, where each of the side chains has at least one carbon atom,  $a$  is an integer of at least 3, and  $b$  is an integer of 10 to 30.

Oharu et al does not describe a branched alkyl group of Formula (I) of claims 1 and 11 having three or more side chains. Moreover, there is nothing in the cited prior art which suggests the desirability of modifying the compounds of Oharu et al to have the specifically claimed structure. Even further, Oharu et al does not recognize the advantageous effects of the present invention as evidenced in the Declaration under 37 C.F.R. § 1.132 filed September 12, 2008, which shows that the present invention provides unexpectedly superior results when compared with the closest prior art embodiment.

As noted in the Response filed February 18, 2009, the Declaration under 37 C.F.R. § 1.132 filed September 12, 2008 does show the criticality of the number of side chains in the

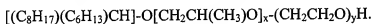
nonionic surfactant and that criticality establishes the nonobviousness of the present invention over Oharu et al.

Specifically, in the Declaration submitted September 12, 2008, Experiment 1 uses polyoxypropylene polyoxyethylene isotridecyl ether (POPPOE-ITDE) having the chemical formula:



POPPOE-ITDE used in the Declaration has 4 side chains and can impart advantageous effects of the present invention (such as excellent durability of water- and oil-repellency, mechanical stability and chemical stability).

In contrast, Comparative Experiment 2 in the Declaration uses polyoxypropylene polyethylene isopentadecyl ether (IPDE) having the chemical formula:



IPDE has 1 side chain and cannot impart advantageous effects of the present invention.

The Declaration shows that polyoxypropylene polyoxyethylene isotridecyl ether gives better mechanical stability and chemical stability than polyoxypropylene polyoxyethylene isopentadecyl ether which is disclosed at column 10, lines 5-6, of Oharu et al. Polyoxypropylene polyoxyethylene isotridecyl ether is included in the scope of the nonionic surfactant of formula (I) recited in present claims 1 and 11, but polyoxypropylene polyoxyethylene isopentadecyl ether (having one side chain) disclosed by Oharu et al is outside of the scope of the nonionic surfactant of formula (I). Thus, the Declaration shows that the present invention where R<sup>1</sup> is has three or

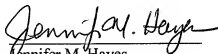
more side chains provides unexpectedly superior effects which are not obtained when R<sup>1</sup> has fewer side chains.

Accordingly, the present claims are patentable over the cited prior art, and withdrawal of the foregoing rejection under 35 U.S.C. § 103(a) is respectfully requested.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

  
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